

COMMUNICATION SYSTEM ACTIVATION

ABSTRACT

In one embodiment a communication device activation system is provided to
5 restore activation of one or more communication devices that are in a powered-down
mode to conserve power usage during a period of inactivity. The activation signal, also
referred to as a warm start signal, comprises a sequence signal. A sequence generator
generates a desired sequence signal. It is contemplated that one or more sequence signals
may be selected for use by the activation system. The sequence signal may be generated
10 or stored and retrieved. To resume communication, a wake-up sequence signal is
generated and transmitted to a remote communication device. Upon receipt the received
signal is filtered, correlated and analyzed. Analysis may compare one or more aspects of
the signal to a threshold signal. If the signal is determined to comprise a wake-up signal,
i.e. a request for communication, then a warm-start operation may occur. An
15 acknowledgement signal may optionally be generated to acknowledge receipt of the
signal. In one embodiment one or more sequence signals are utilized to monitor channel
characteristics and adjust communication device settings accordingly. This may occur as
part of the wake-up process.